

**OPERATION AND MAINTENANCE PLAN
DAM, FLOODWATER RETARDING
CODE 402**

Landowner/Operator _____

Job Location _____ GPS _____

Prepared By _____ Date _____

Operation and Maintenance Items

A properly operated and maintained Floodwater Retarding Dam and Reservoir is an asset to the area. This structure was designed and installed to store and release water at a controlled rate to prevent flooding downstream of the dam. The estimated life span of this installation is at least 10 - 20 years. The life of this installation can be assured and usually increased by developing and carrying out an effective operation and maintenance program. An effective operation and maintenance program includes:

- ☐ Erosion, settlement or cracks in earthen sections must be investigated (to determine the cause) and repaired.
- ☐ Periodically inspect the spillways and control gates, valves and weirs for proper functioning and their ability to maintain the water level to design elevations. Remove debris and flow blockages. Periodically operate gates and valves to help assure proper function.
- ☐ Inspect metal surfaces for rust and other damage. Especially inspect sections in contact with earthfill and/or other materials. Repair or replace damaged sections and apply a protective covering.
- ☐ Inspect concrete for accelerated weathering, spalling, settlement, misalignment or cracks. Repair defects.
- ☐ Inspect rock riprap for accelerated weathering and displacement. Repair to original grades if necessary.
- ☐ Check for unusual seepage on the backside of the dam. Check for water flowing underneath the pipe at the outlet, water flowing in the inlet but not out the outlet, and for water flowing out the outlet but not in the inlet. Make sure all structure drains are functional and soil is not being transported through the drainage system. Screens and/or rodent guards must be maintained and in place.
- ☐ Repair any rodent, burrowing animal, vandalism, vehicle, or livestock damage.
- ☐ Maintain a vigorous growth of vegetation. This includes reseeding, fertilization, and application of herbicides when necessary. Periodic mowing or short term grazing may also be needed to control height.
- ☐ Maintain fences to prevent unauthorized human or livestock entry.
- ☐ Remove debris that may accumulate in the reservoir and immediately upstream or downstream from inlet and outlet facilities.

Other _____

